

Appl. No. 10/707,275
Amtd. dated March 30, 2006
Reply to Office action of January 20, 2006

Amendments to the Claims:

Listing of Claims:

Claims 1-11 (cancelled)

- 5 Claim 12 (currently amended): A backlight source disposed under a display panel, the backlight source comprising a plurality of parallel U-shaped lamps or C-shaped lamps, each of which comprises a bending portion, a high voltage electrode at one end and a low voltage electrode at another end of each of the U-shaped lamp or C-shaped lamp, the U-shaped or C-shaped lamps being reverse disposed side by side along a first direction so that all of the high and low voltage electrodes are positioned in at least a line along the first direction, each of the U-shaped or C-shaped lamps being bent in a reverse direction to the adjacent U-shaped or C-shaped lamps, so that the high and low voltage electrodes are positioned in two lines along the first direction, and the high voltage electrode of each of the U-shaped or C-shaped lamps is adjacent to the low voltage electrode of the same U-shaped or C-shaped lamps, or the low voltage electrode of another U-shaped or C-shaped lamps along the first direction; wherein each of the U-shaped or C-shaped lamps has an opening defined by its two ends and bending portion, and one end of each of the U-shaped or C-shaped lamps is positioned inside the opening of one of the adjacent U-shaped or C-shaped lamps.

Claim 13 (previously presented): The backlight source of claim 12 wherein the backlight source is installed in a direct-type backlight panel unit.

Claim 14 (previously presented): The backlight source of claim 13 wherein the direct-type backlight unit comprises a diffuser disposed between the

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display panel and the plurality of the U-shaped lamps for scattering a light source generated by the plurality of the U-shaped lamps to the display panel, a light diffuser plate disposed between the diffuser and the plurality of the U-shaped lamps for transmitting the light source to the diffuser, and
5 a reflecting plate disposed under the plurality of the U-shaped lamps for reflecting the light source to the light diffuser plate.

Claim 15 (previously presented): The backlight source of claim 14 wherein the direct-type backlight panel unit further comprises a housing disposed
10 under the reflecting plate for surrounding the reflecting plate, and a bezel for assembling the display panel and the backlight source.

Claim 16 (previously presented): The backlight source of claim 12 wherein each of the U-shaped or C-shaped lamps is a cold cathode fluorescent lamp
15 (CCFL).

Claims 17-19 (cancelled)

Claim 20 (previously presented): The backlight source of claim 12 wherein
20 the backlight source further comprises a power supply for providing current and a control circuit electrically connected to the power supply for driving the backlight source.

Claim 21 (previously presented): The backlight source of claim 20 wherein
25 the control circuit comprises at least one inverter electrically connected to the high voltage electrode and the low voltage electrode of the corresponding U-shaped lamp or C-shaped lamp.

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Claim 22 (previously presented): The backlight source of claim 21 wherein the inverter comprises a direct current/alternating current (DC/AC) inverter, a pulse width modulation (PWM) inverter or a series resonant parallel loaded (SPRL) inverter.

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